

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD082021\
 Data File : VD070202.D
 Acq On : 20 Aug 2021 14:52
 Operator : VA/SY
 Sample : M3418-22RE
 Misc : 2.83G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 23 03:53:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D081321S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 14 02:33:51 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

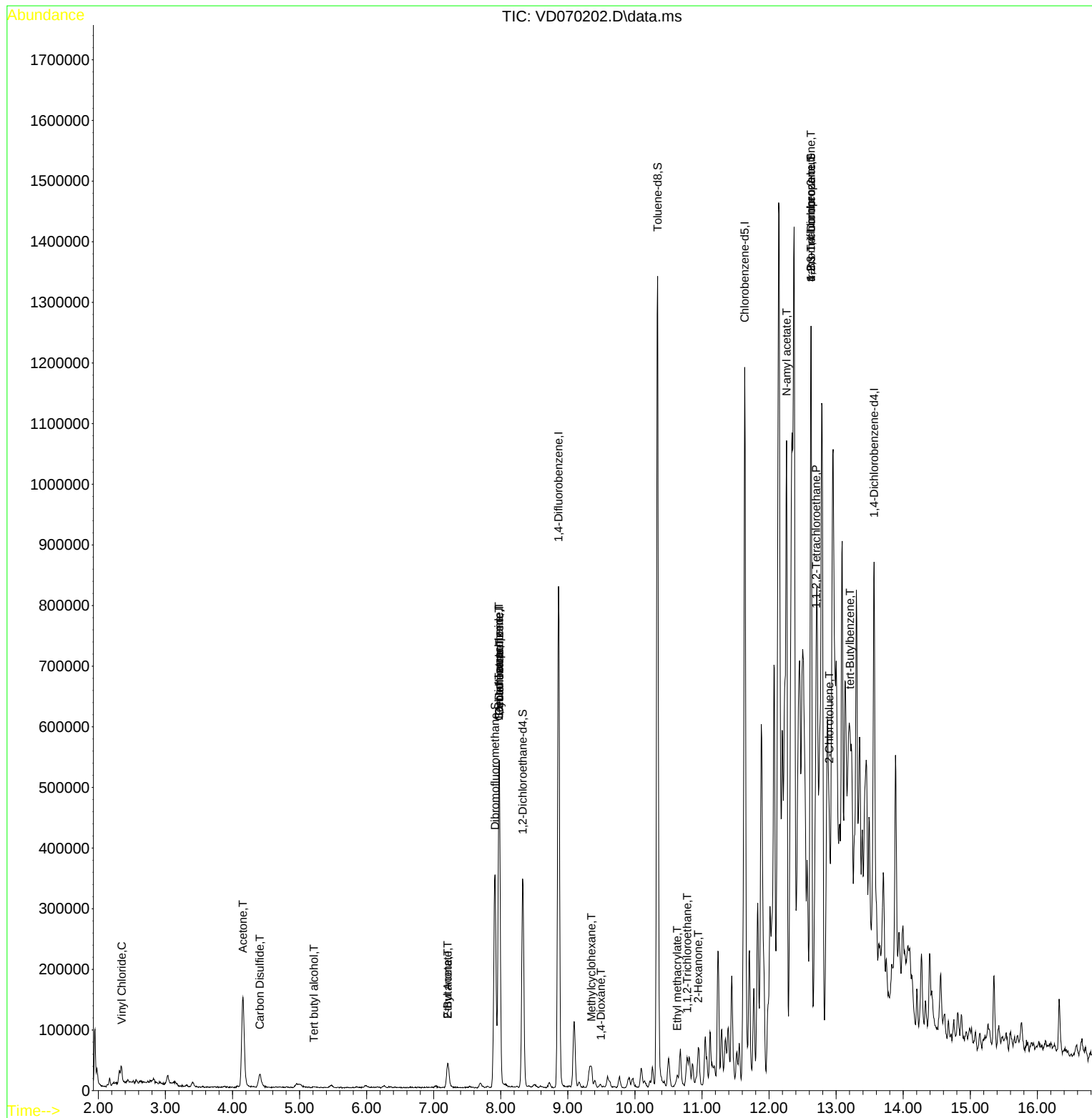
Internal Standards						
1) Pentafluorobenzene	7.979	168	384217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	702664	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	647546	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	188260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	266332	58.936	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 117.880%	
35) Dibromofluoromethane	7.914	113	261419	57.586	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 115.180%	
50) Toluene-d8	10.338	98	907429	51.393	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 102.780%	
62) 4-Bromofluorobenzene	12.626	95	292436	50.284	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 100.560%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	794	Below Cal	#	38
3) Chloromethane	2.209	50	1502	Below Cal		100
4) Vinyl Chloride	2.350	62	7537	1.159	ug/l #	88
5) Bromomethane	2.779	94	2412	Below Cal	#	63
11) Tert butyl alcohol	5.214	59	758	3.035	ug/l #	71
16) Acetone	4.156	43	259269	311.444	ug/l	98
17) Carbon Disulfide	4.409	76	43729	2.650	ug/l #	94
20) Methylene Chloride	4.967	84	4207	Below Cal	#	80
25) 2-Butanone	7.208	43	54759	48.139	ug/l	90
31) Cyclohexane	7.979	56	11623	1.299	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	35476	4.693	ug/l #	48
37) Ethyl Acetate	7.208	43	54759	19.944	ug/l #	78
38) Carbon Tetrachloride	7.973	117	39257	5.720	ug/l #	13
39) Methylcyclohexane	9.349	83	12144	1.380	ug/l #	83
49) 1,4-Dioxane	9.491	88	54	1.794	ug/l #	1
55) 1,1,2-Trichloroethane	10.779	97	10729	2.737	ug/l #	41
56) Ethyl methacrylate	10.632	69	5788	1.298	ug/l #	35
59) 2-Hexanone	10.943	43	24921	13.961	ug/l #	31
74) N-amyl acetate	12.261	43	259504	87.671	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	12.702	83	34566	12.619	ug/l #	1
76) 1,2,3-Trichloropropane	12.626	75	128473	67.291	ug/l #	1
79) 2-Chlorotoluene	12.896	91	10911	1.071	ug/l #	51
81) trans-1,4-Dichloro-2-b...	12.626	75	128473	174.663	ug/l #	24
83) tert-Butylbenzene	13.208	119	16773	1.766	ug/l	90

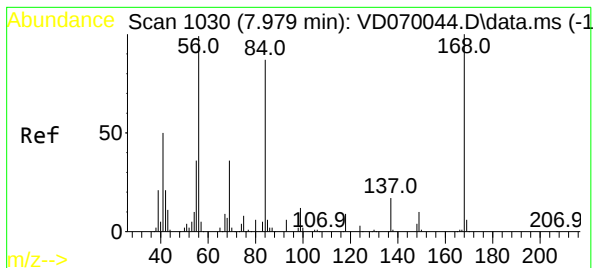
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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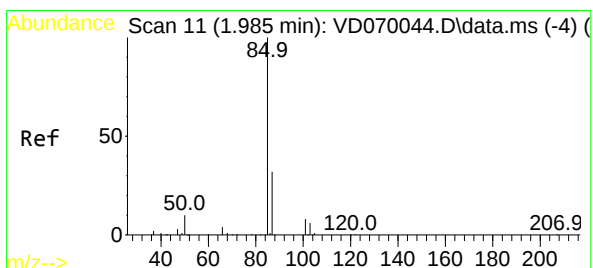
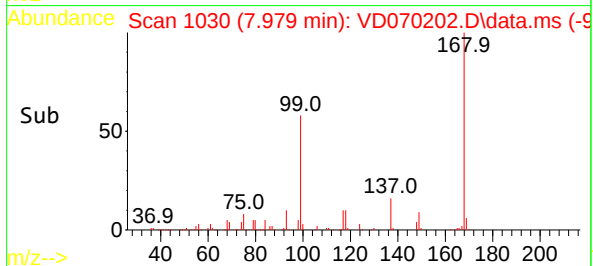
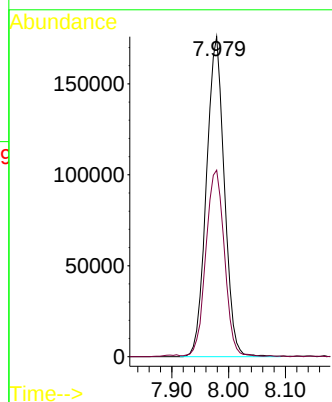
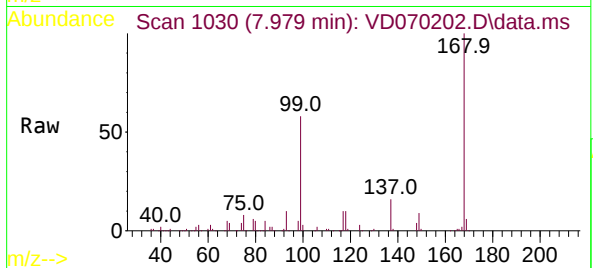


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.979 min Scan# 1030
 Delta R.T. -0.000 min
 Lab File: VD070202.D
 Acq: 20 Aug 2021 14:52

Instrument :
 MSVOA_D
 ClientSampleId :

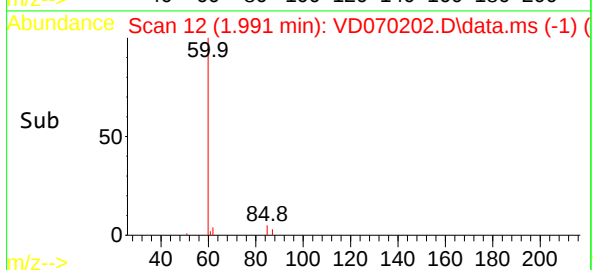
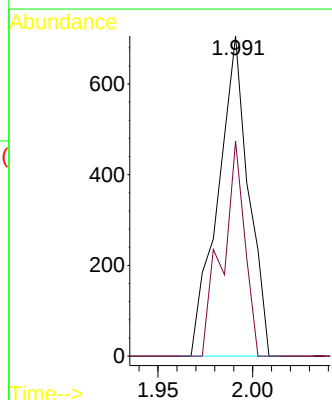
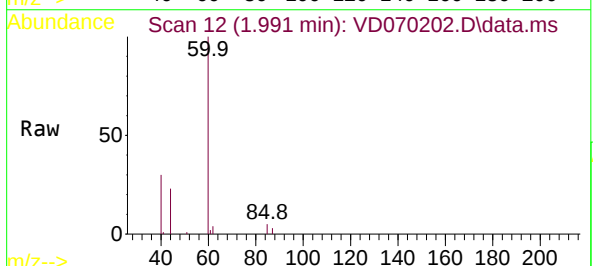
Tgt Ion:168 Resp: 384217
 Ion Ratio Lower Upper
 168 100
 99 58.1 50.3 75.5

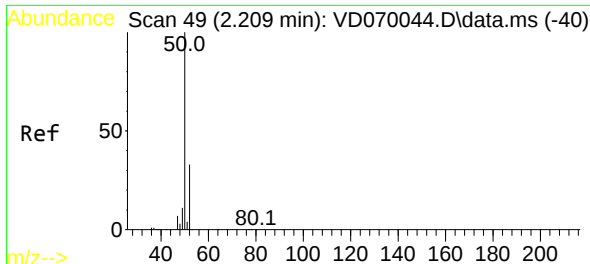


#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.991 min Scan# 12
 Delta R.T. 0.006 min
 Lab File: VD070202.D
 Acq: 20 Aug 2021 14:52

Tgt Ion: 85 Resp: 794
 Ion Ratio Lower Upper
 85 100
 87 67.1 16.2 48.6#

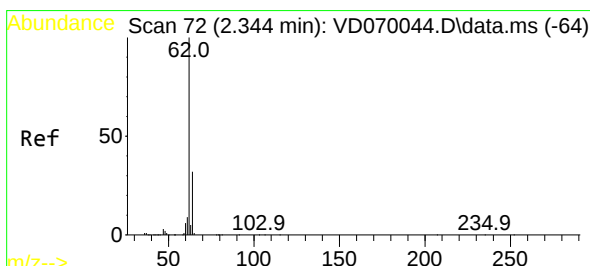
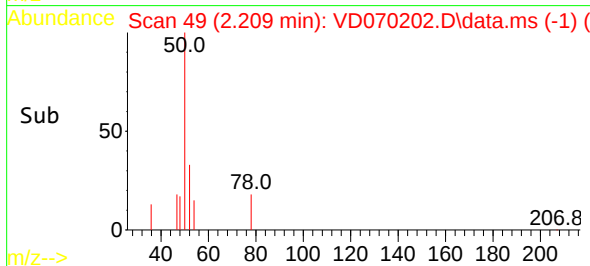
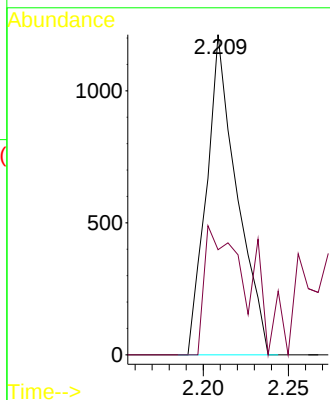
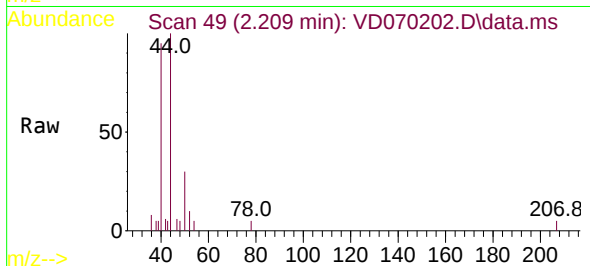




#3
Chloromethane
Concen: Below Cal
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

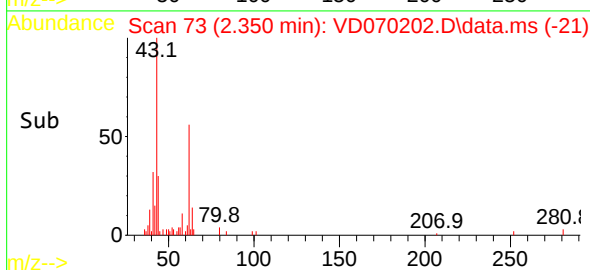
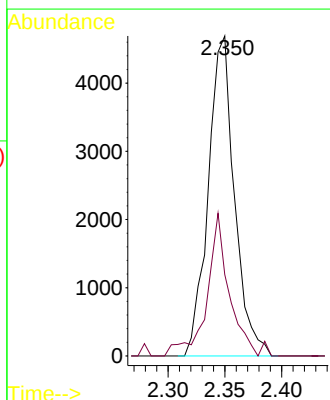
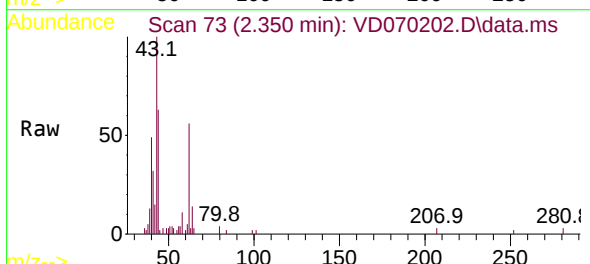
Instrument :
MSVOA_D
ClientSampled :

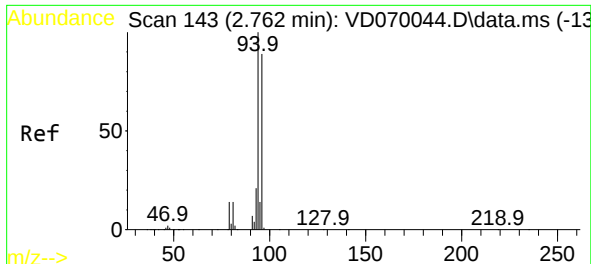
Tgt Ion: 50 Resp: 1502
Ion Ratio Lower Upper
50 100
52 32.8 26.3 39.5



#4
Vinyl Chloride
Concen: 1.159 ug/l
RT: 2.350 min Scan# 73
Delta R.T. 0.006 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 62 Resp: 7537
Ion Ratio Lower Upper
62 100
64 25.5 25.7 38.5#

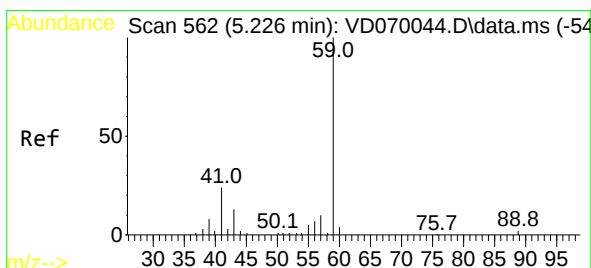
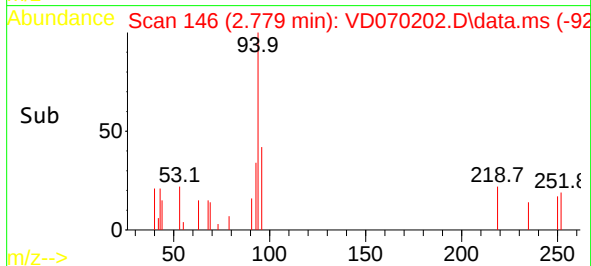
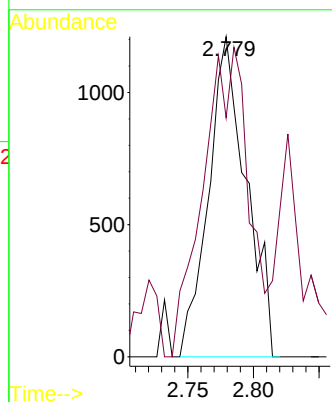
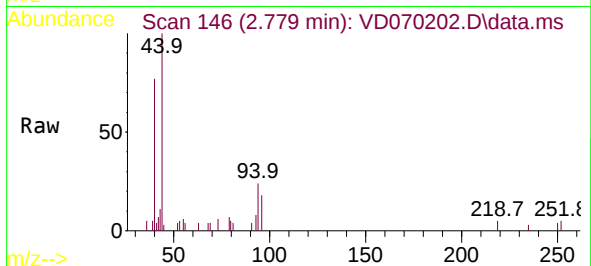




#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.017 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

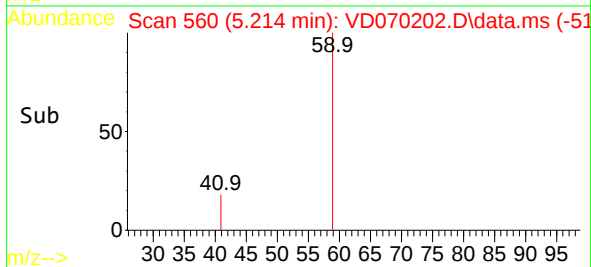
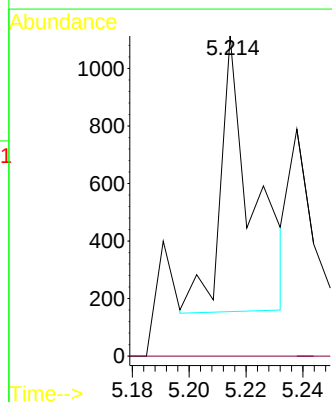
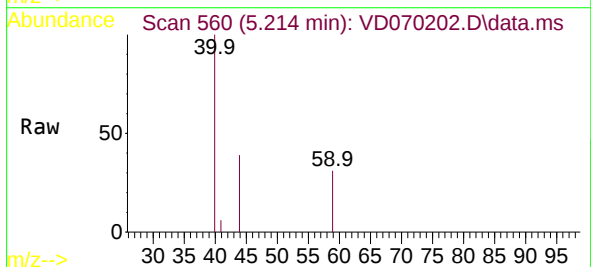
Instrument :
MSVOA_D
ClientSampleId :

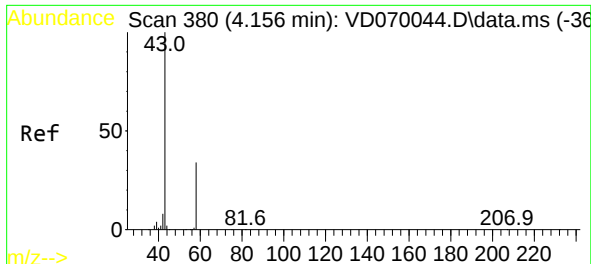
Tgt Ion: 94 Resp: 2412
Ion Ratio Lower Upper
94 100
96 54.1 70.9 106.3#



#11
Tert butyl alcohol
Concen: 3.035 ug/l
RT: 5.214 min Scan# 560
Delta R.T. -0.012 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 59 Resp: 758
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

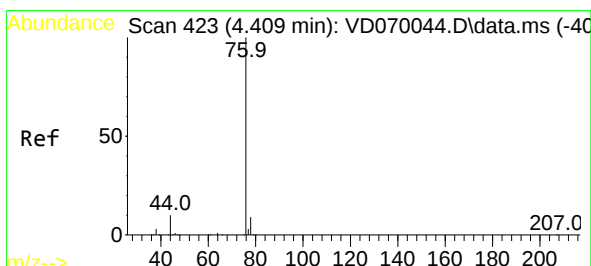
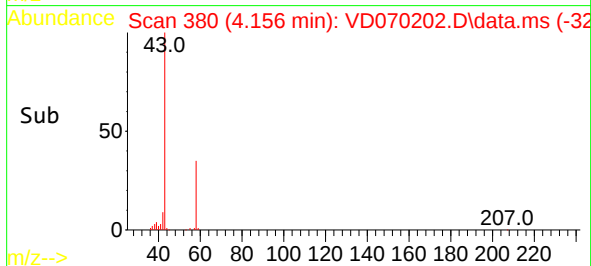
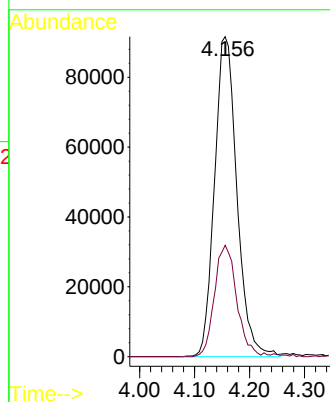
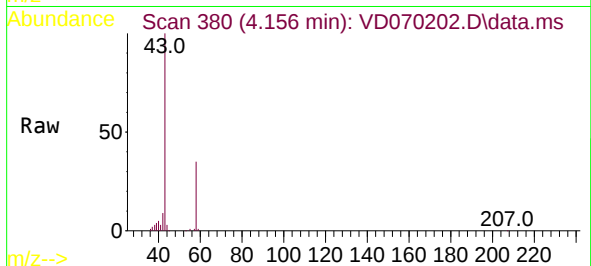




#16
Acetone
Concen: 311.444 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

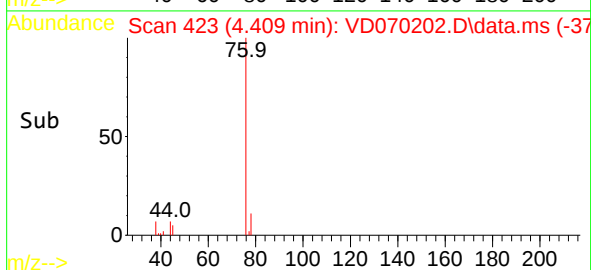
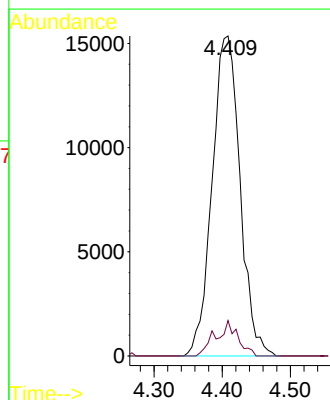
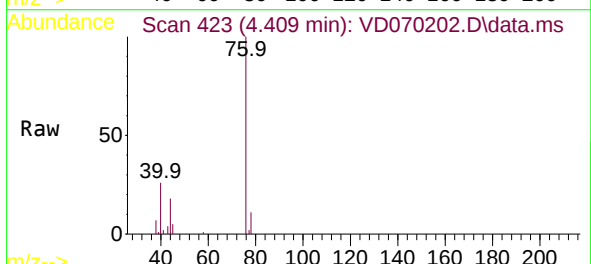
Instrument :
MSVOA_D
ClientSampled :

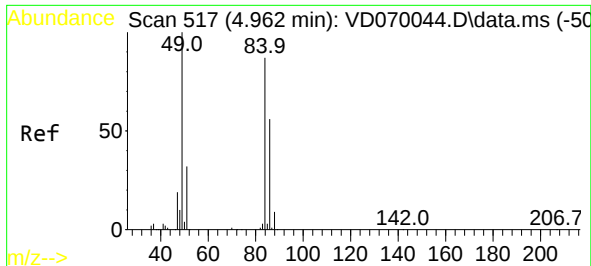
Tgt Ion: 43 Resp: 259269
Ion Ratio Lower Upper
43 100
58 34.8 26.8 40.2



#17
Carbon Disulfide
Concen: 2.650 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

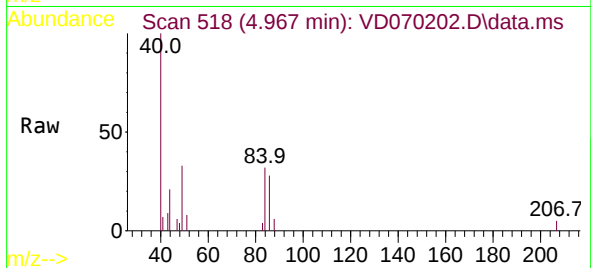
Tgt Ion: 76 Resp: 43729
Ion Ratio Lower Upper
76 100
78 11.1 7.1 10.7#



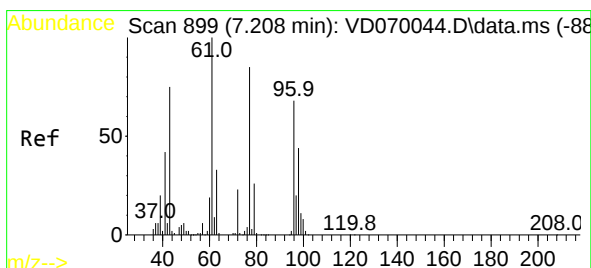
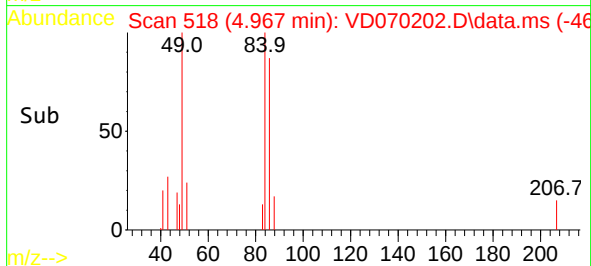
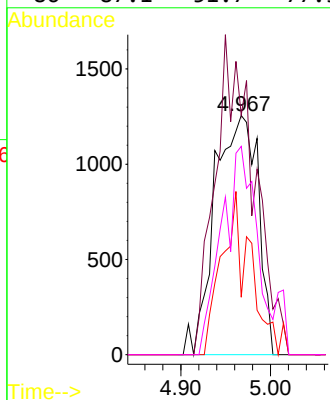


#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 518
Delta R.T. 0.005 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Instrument :
MSVOA_D
ClientSampled :

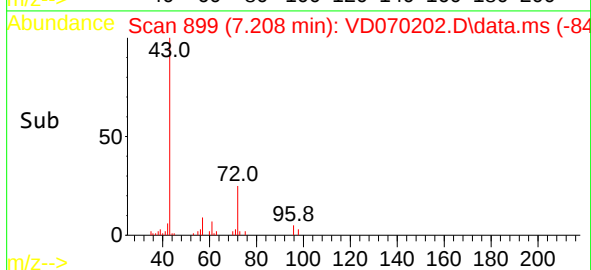
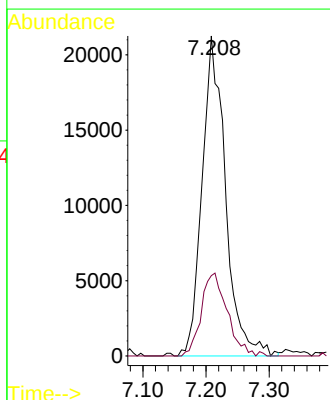
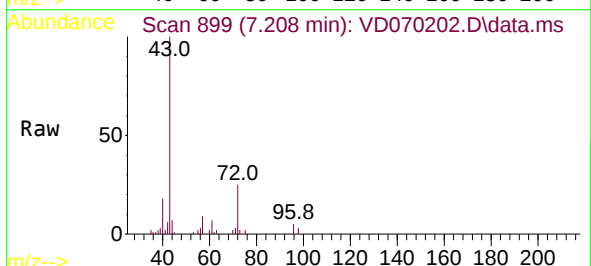


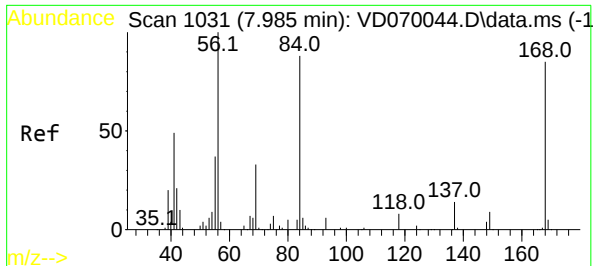
Tgt Ion: 84 Resp: 4207
Ion Ratio Lower Upper
84 100
49 100.2 92.5 138.7
51 24.0 29.7 44.5#
86 87.1 51.7 77.5#



#25
2-Butanone
Concen: 48.139 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 43 Resp: 54759
Ion Ratio Lower Upper
43 100
72 25.1 24.2 36.4

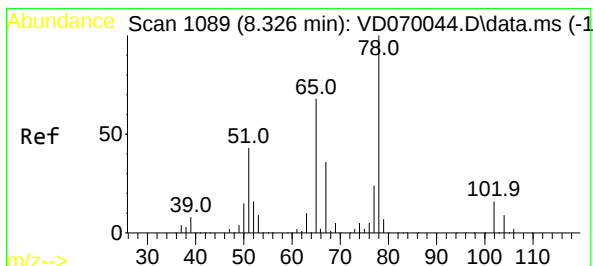
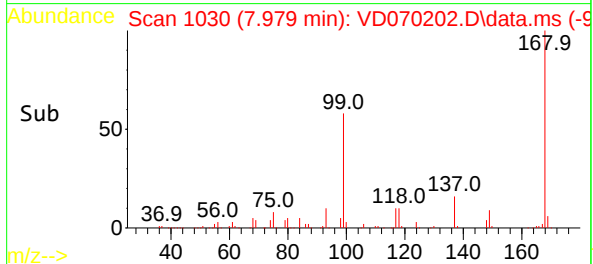
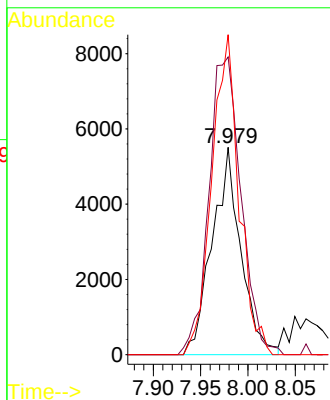
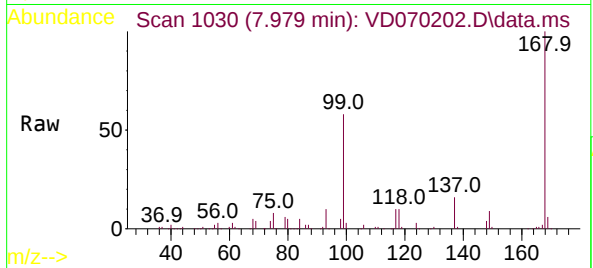




#31
Cyclohexane
Concen: 1.299 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

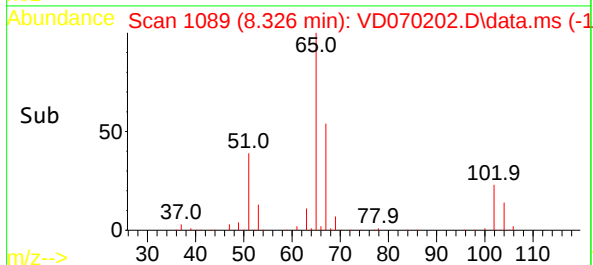
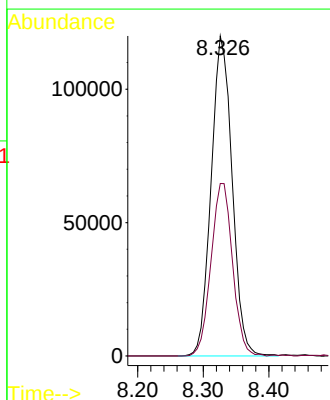
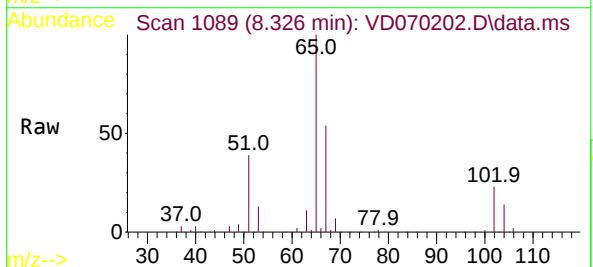
Instrument :
MSVOA_D
ClientSampled :

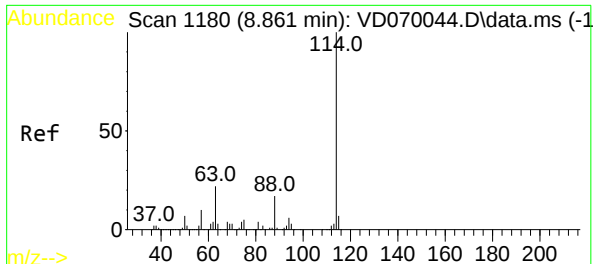
Tgt Ion: 56 Resp: 11623
Ion Ratio Lower Upper
56 100
69 143.6 26.7 40.1#
84 154.4 70.4 105.6#



#33
1,2-Dichloroethane-d4
Concen: 58.936 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 65 Resp: 266332
Ion Ratio Lower Upper
65 100
67 55.3 0.0 107.8



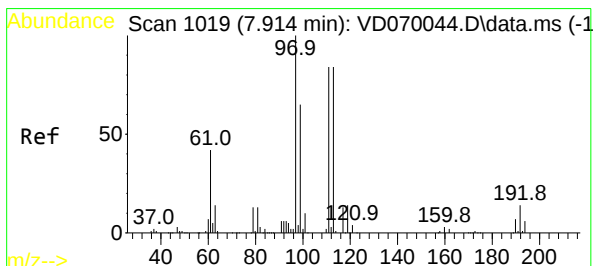
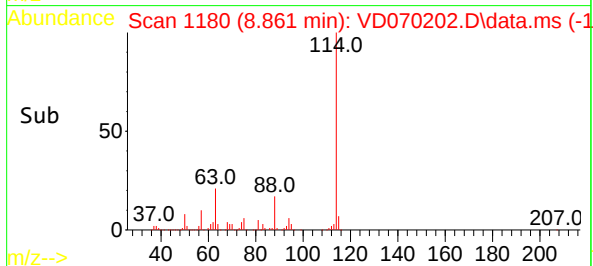
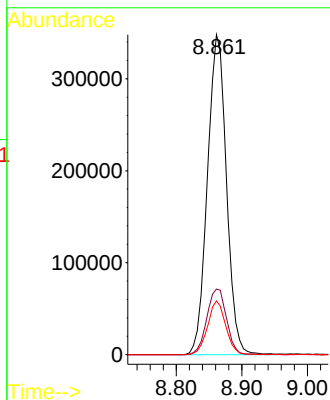
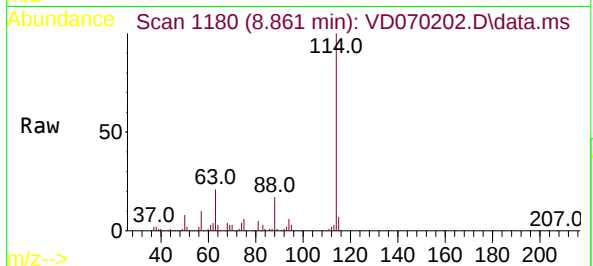


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Instrument :
MSVOA_D
ClientSampleId :

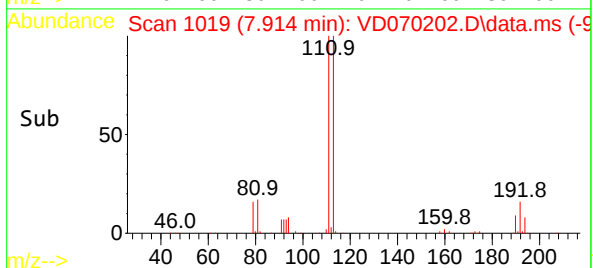
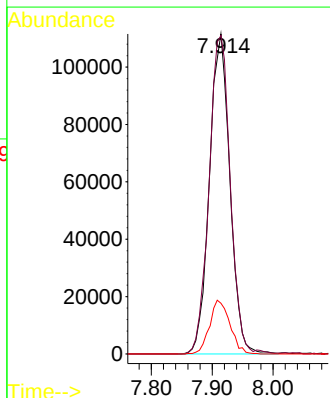
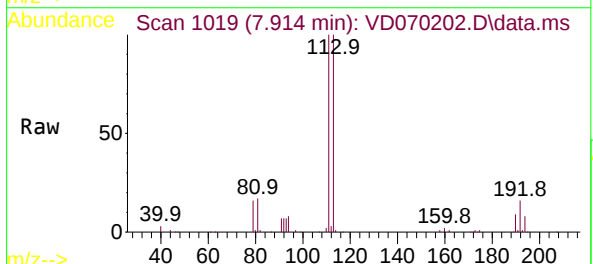
Tgt Ion:114 Resp: 702664
Ion Ratio Lower Upper
114 100
63 20.5 0.0 43.6
88 16.8 0.0 33.4

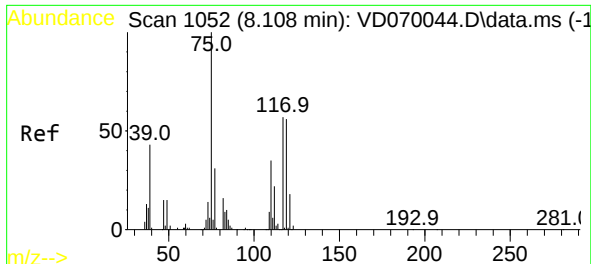


#35

Dibromofluoromethane
Concen: 57.586 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion:113 Resp: 261419
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.6
192 16.6 13.2 19.8

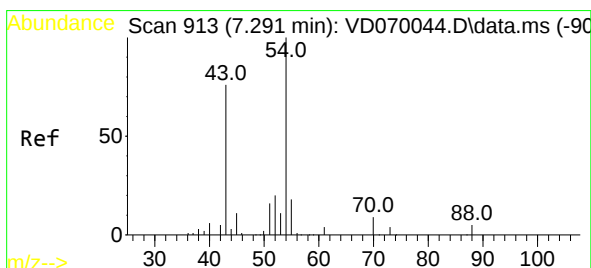
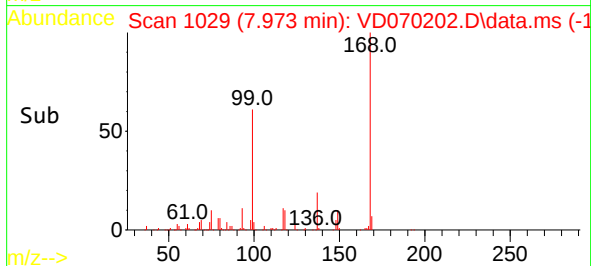
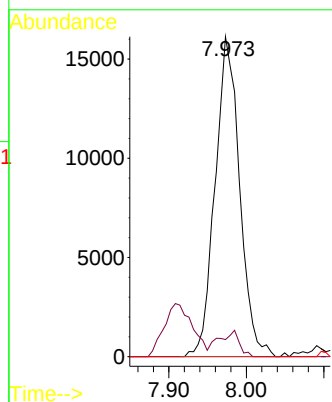
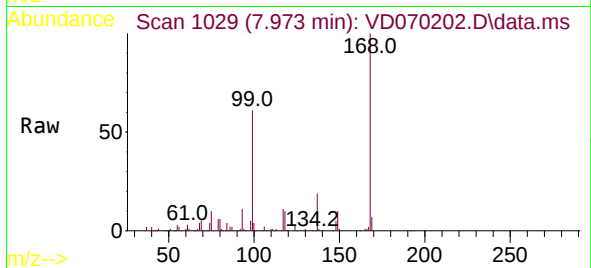




#36
1,1-Dichloropropene
Concen: 4.693 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

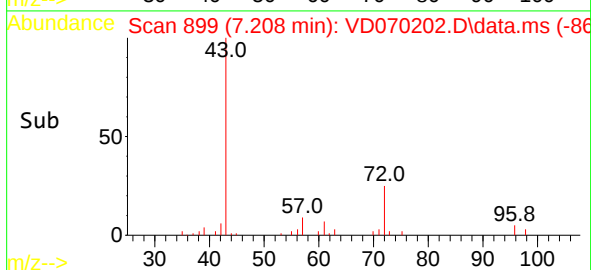
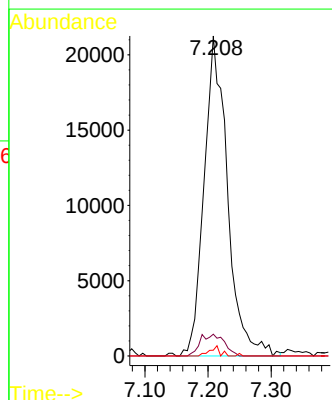
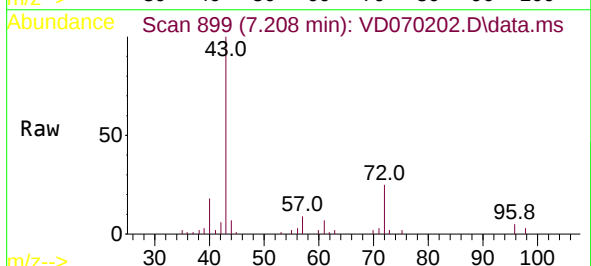
Instrument :
MSVOA_D
ClientSampleId :

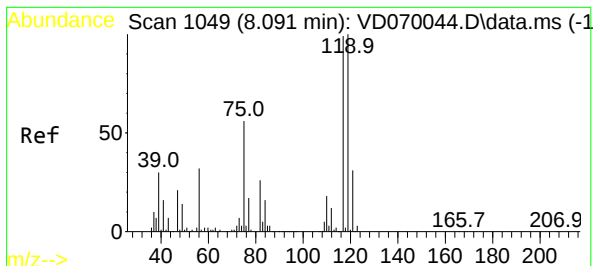
Tgt Ion: 75 Resp: 35476
Ion Ratio Lower Upper
75 100
110 6.9 16.9 50.7#
77 0.0 25.2 37.8#



#37
Ethyl Acetate
Concen: 19.944 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.082 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 43 Resp: 54759
Ion Ratio Lower Upper
43 100
61 6.9 11.8 17.6#
70 1.4 9.0 13.6#

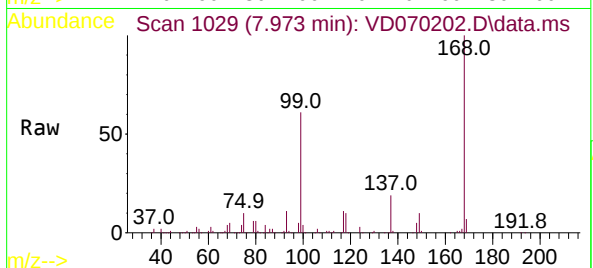




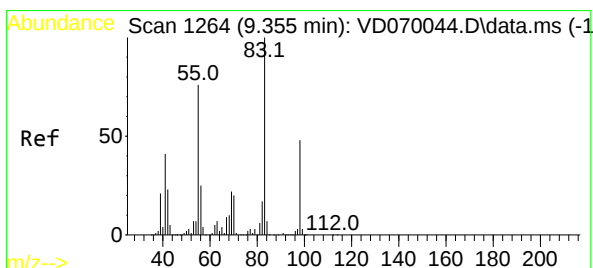
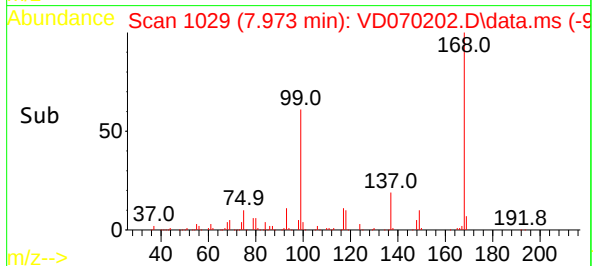
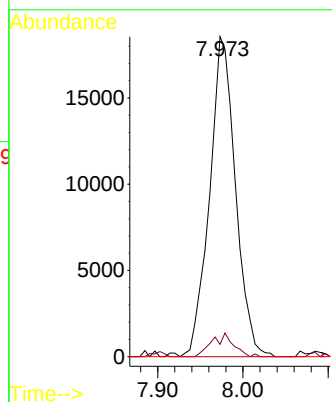
#38

Carbon Tetrachloride
Concen: 5.720 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Instrument :
MSVOA_D
ClientSampled :



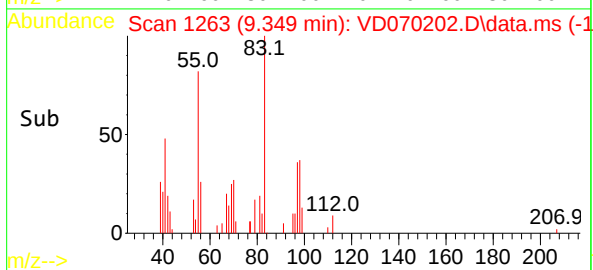
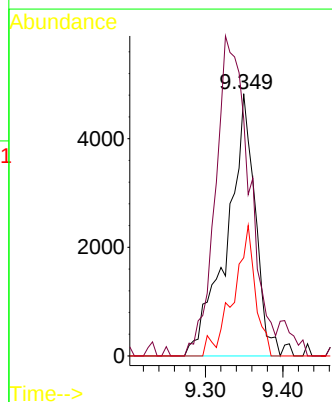
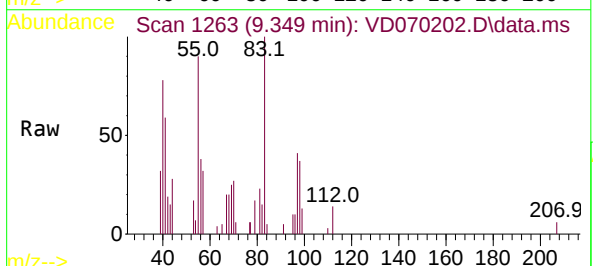
Tgt Ion:117 Resp: 39257
Ion Ratio Lower Upper
117 100
119 3.8 81.0 121.6#
121 0.0 25.0 37.6#

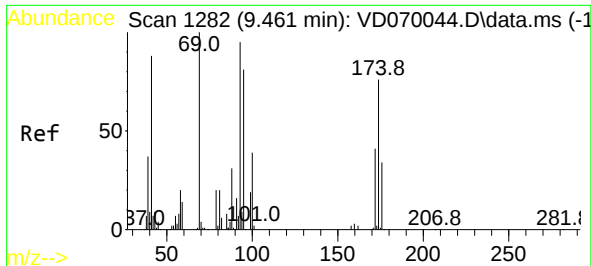


#39

Methylcyclohexane
Concen: 1.380 ug/l
RT: 9.349 min Scan# 1263
Delta R.T. -0.006 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 83 Resp: 12144
Ion Ratio Lower Upper
83 100
55 90.5 60.7 91.1
98 37.4 38.6 58.0#

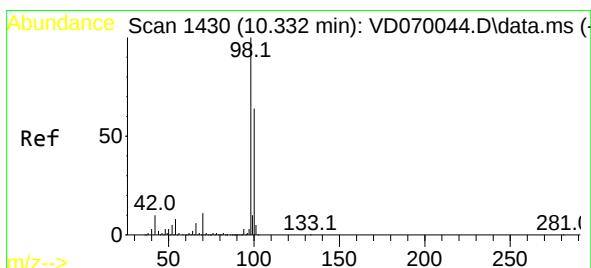
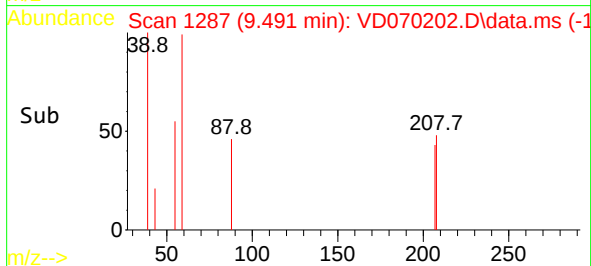
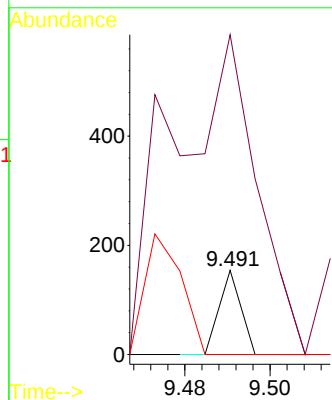
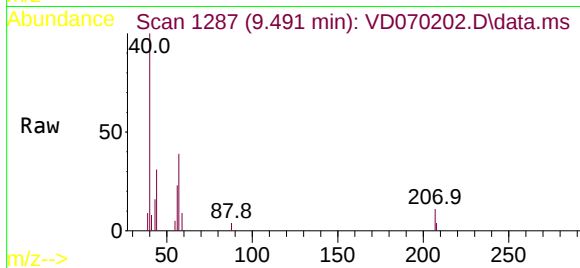




#49
1,4-Dioxane
Concen: 1.794 ug/l
RT: 9.491 min Scan# 1287
Delta R.T. 0.029 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

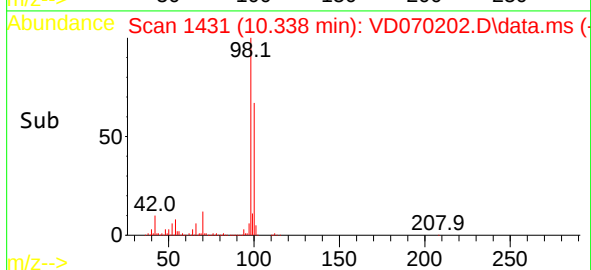
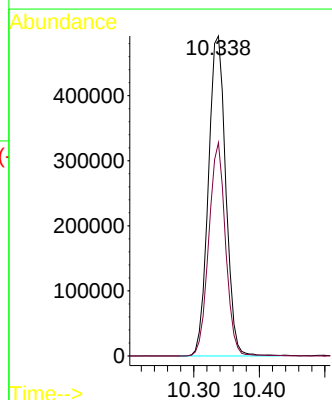
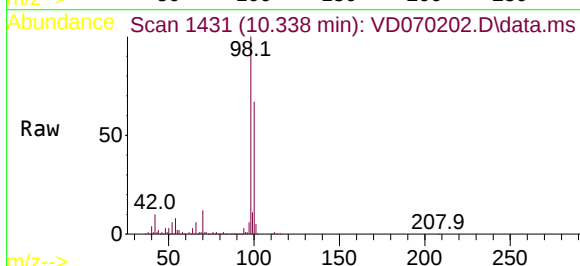
Instrument :
MSVOA_D
ClientSampleId :

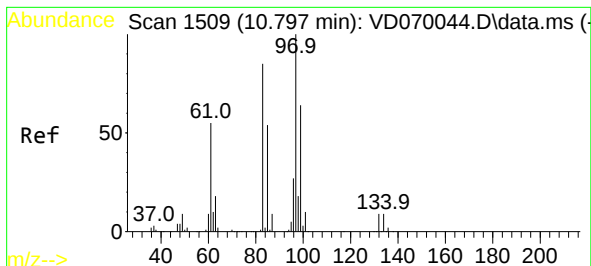
Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 1785.2 25.8 38.6#
58 244.4 57.4 86.2#



#50
Toluene-d8
Concen: 51.393 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 98 Resp: 907429
Ion Ratio Lower Upper
98 100
100 64.0 52.6 78.8

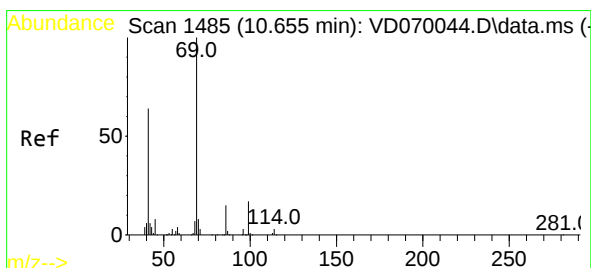
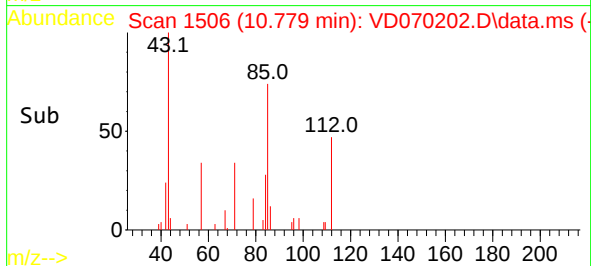
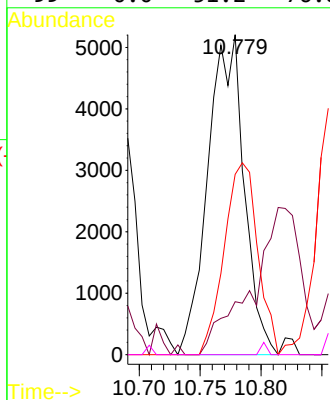
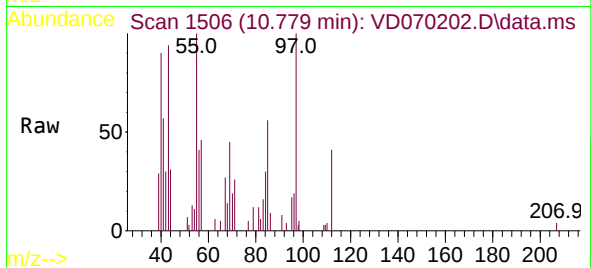




#55
1,1,2-Trichloroethane
Concen: 2.737 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.018 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

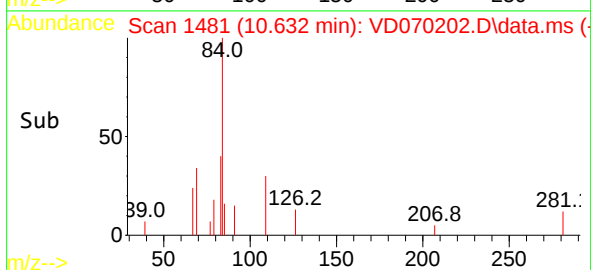
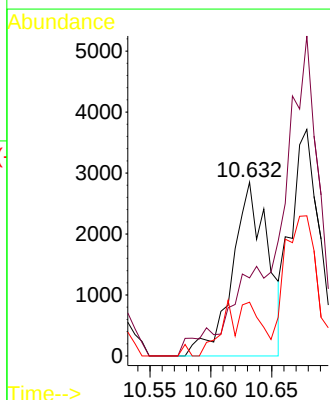
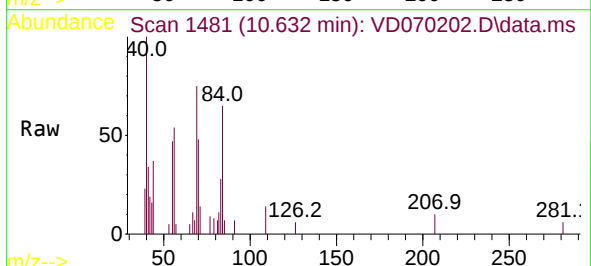
Instrument :
MSVOA_D
ClientSampleId :

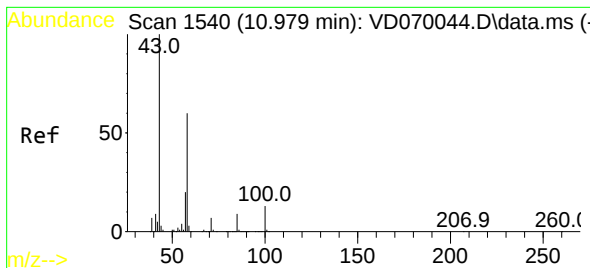
Tgt Ion: 97	Resp: 10729
Ion Ratio	Lower Upper
97 100	
83 13.5	67.8 101.6#
85 56.3	43.4 65.0
99 0.0	51.2 76.8#



#56
Ethyl methacrylate
Concen: 1.298 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.024 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 69	Resp: 5788
Ion Ratio	Lower Upper
69 100	
41 0.0	48.9 73.3#
39 10.7	21.6 32.4#

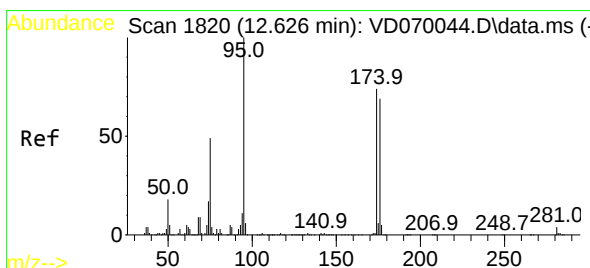
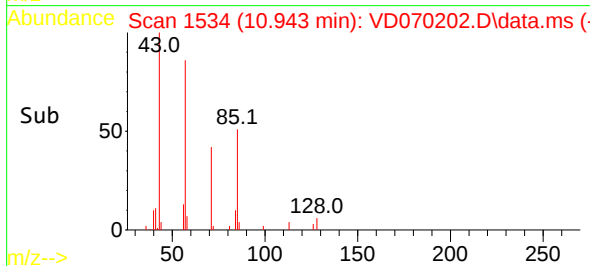
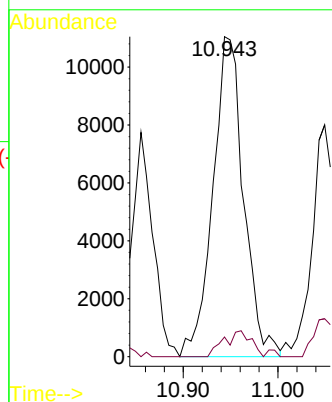
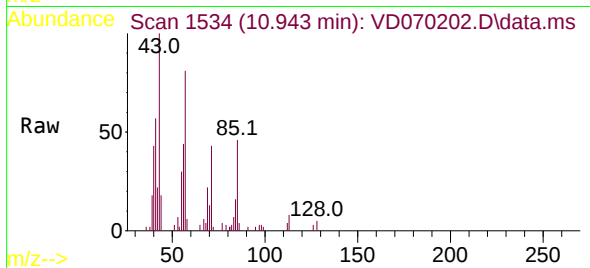




#59
2-Hexanone
Concen: 13.961 ug/l
RT: 10.943 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

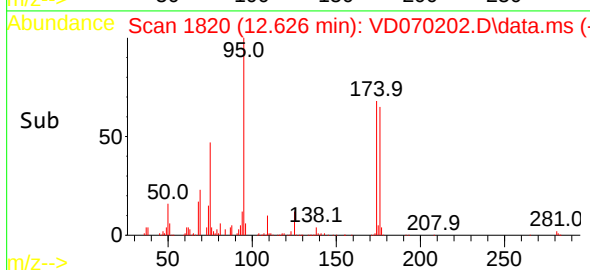
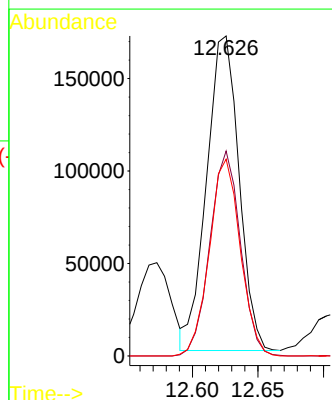
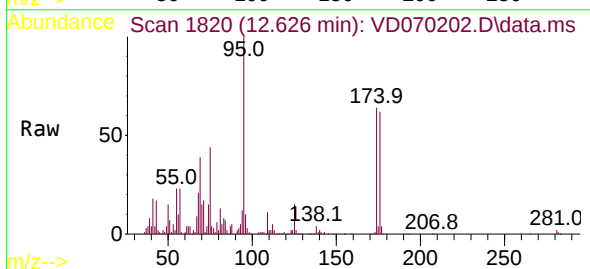
Instrument :
MSVOA_D
ClientSampled :

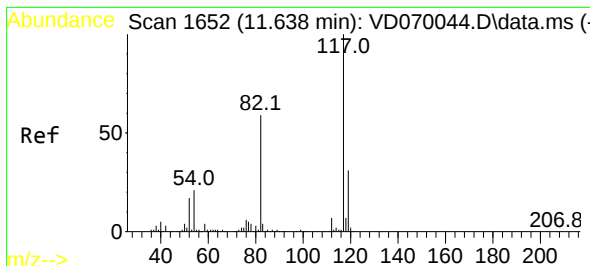
Tgt Ion: 43 Resp: 24921
Ion Ratio Lower Upper
43 100
58 7.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 50.284 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 95 Resp: 292436
Ion Ratio Lower Upper
95 100
174 61.4 0.0 141.6
176 59.8 0.0 138.2

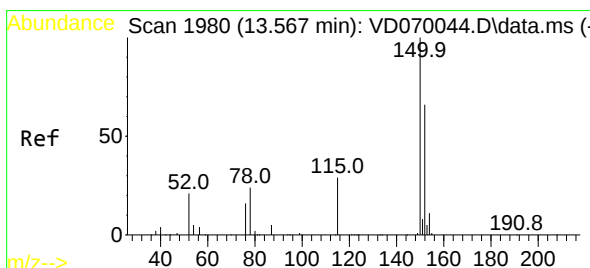
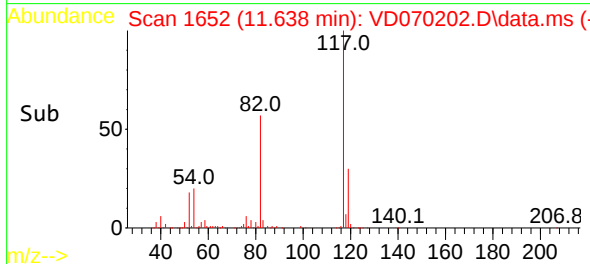
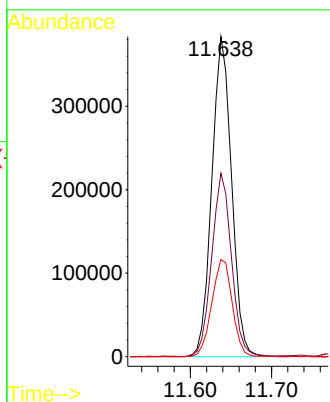
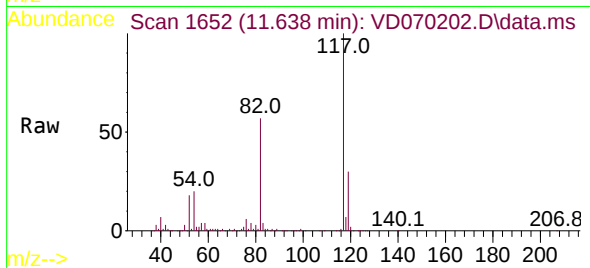




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

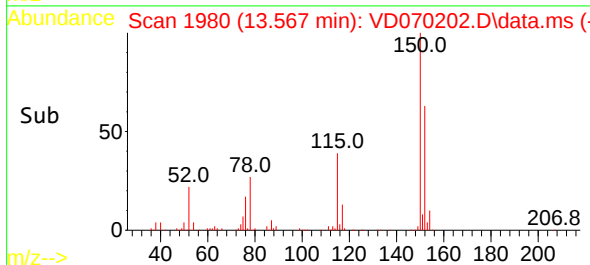
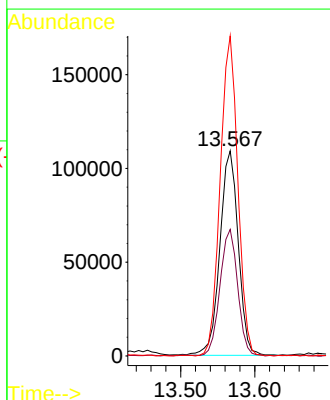
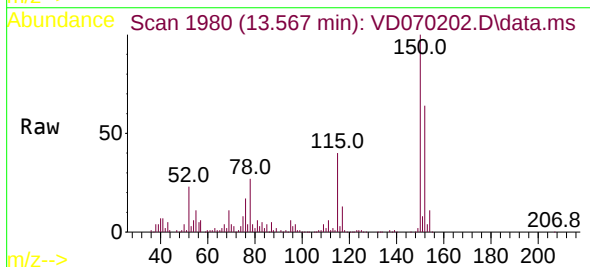
Instrument :
MSVOA_D
ClientSampleId :

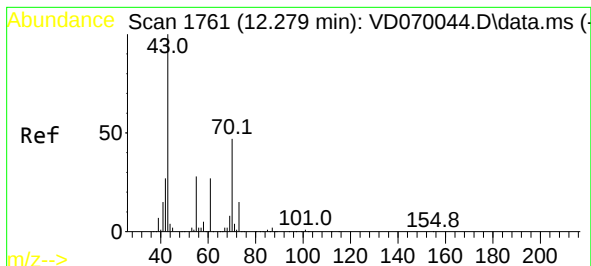
Tgt Ion:117 Resp: 647546
Ion Ratio Lower Upper
117 100
82 57.2 47.5 71.3
119 30.3 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion:152 Resp: 188260
Ion Ratio Lower Upper
152 100
115 58.9 31.2 93.6
150 149.6 0.0 352.0

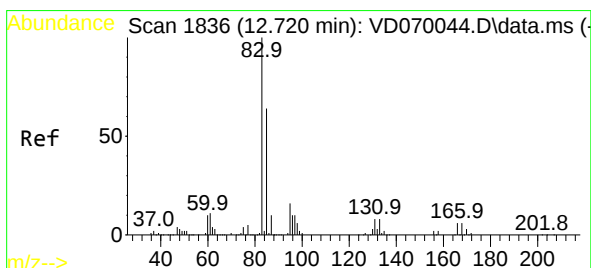
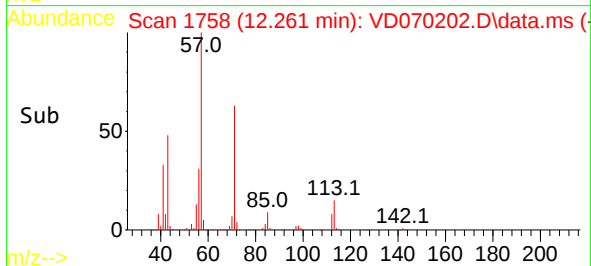
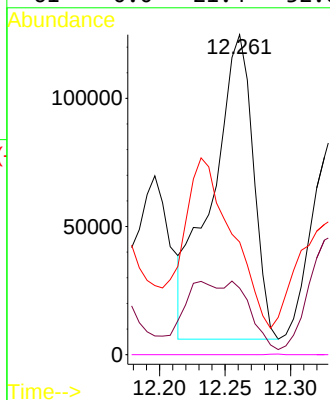
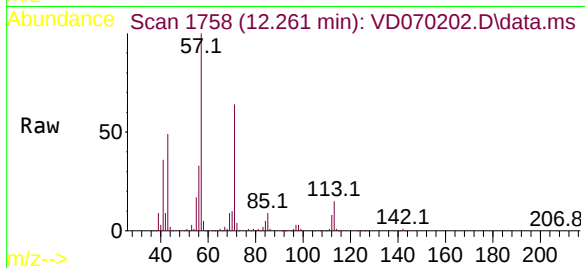




#74
N-amy1 acetate
Concen: 87.671 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

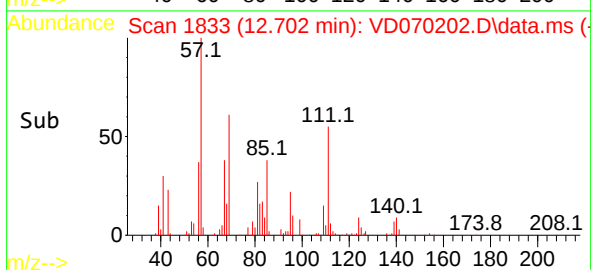
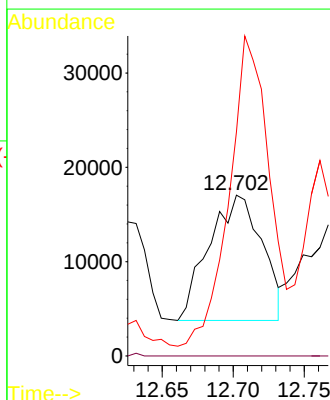
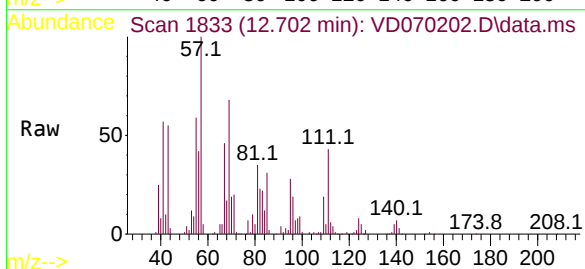
Instrument :
MSVOA_D
ClientSampled :

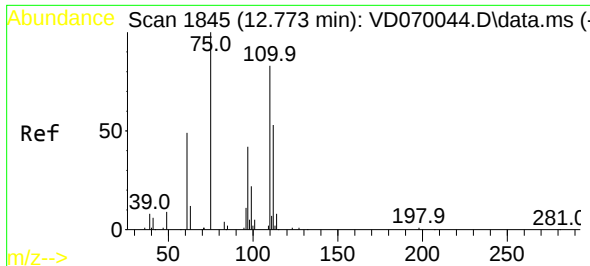
Tgt Ion: 43 Resp: 259504
Ion Ratio Lower Upper
43 100
70 0.0 37.2 55.8#
55 0.0 22.9 34.3#
61 0.0 21.4 32.0#



#75
1,1,2,2-Tetrachloroethane
Concen: 12.619 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 83 Resp: 34566
Ion Ratio Lower Upper
83 100
131 0.0 4.5 13.7#
85 185.1 31.9 95.5#

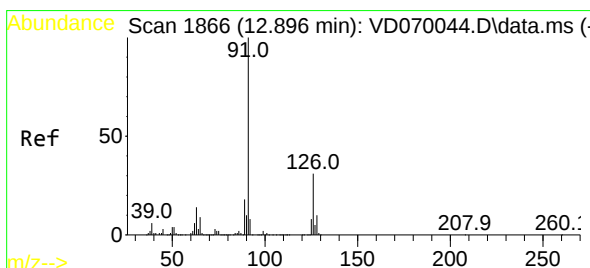
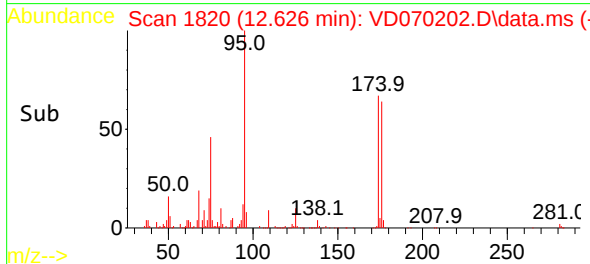
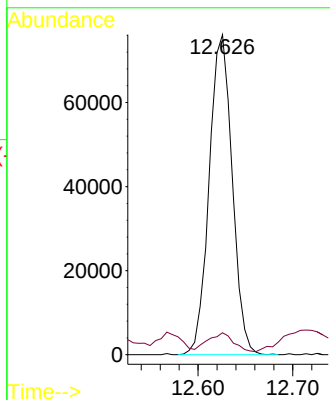
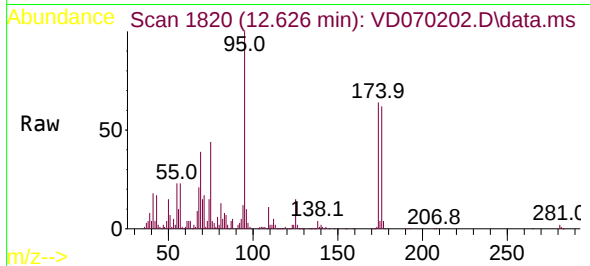




#76
1,2,3-Trichloropropane
Concen: 67.291 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

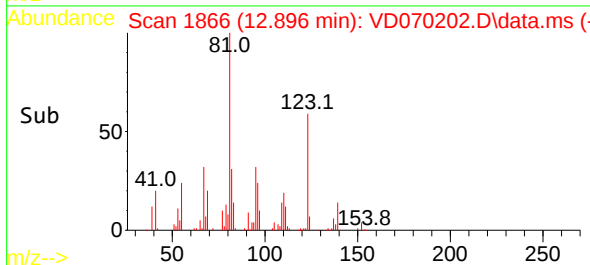
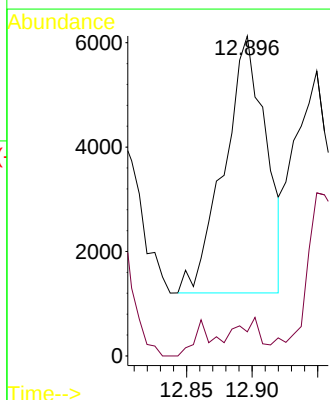
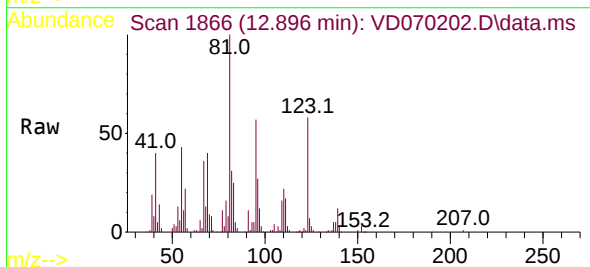
Instrument :
MSVOA_D
ClientSampleId :

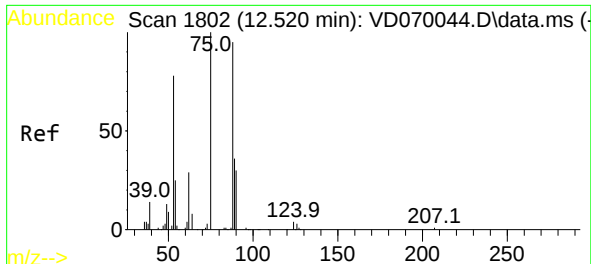
Tgt Ion: 75 Resp: 128473
Ion Ratio Lower Upper
75 100
77 6.3 182.4 547.2#



#79
2-Chlorotoluene
Concen: 1.071 ug/l
RT: 12.896 min Scan# 1866
Delta R.T. -0.000 min
Lab File: VD070202.D
Acq: 20 Aug 2021 14:52

Tgt Ion: 91 Resp: 10911
Ion Ratio Lower Upper
91 100
126 4.7 16.0 48.0#

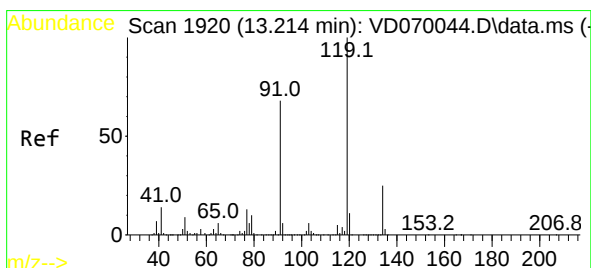
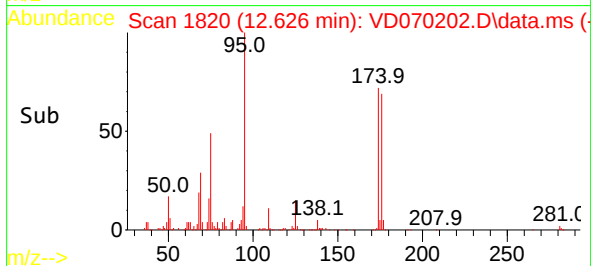
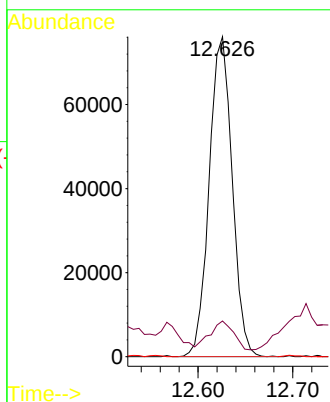
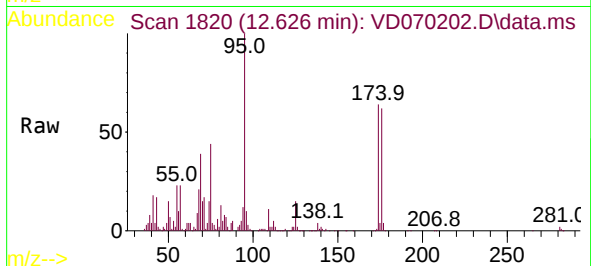




#81
 trans-1,4-Dichloro-2-butene
 Concen: 174.663 ug/l
 RT: 12.626 min Scan# 1820
 Delta R.T. 0.106 min
 Lab File: VD070202.D
 Acq: 20 Aug 2021 14:52

Instrument :
 MSVOA_D
 ClientSampled :

Tgt Ion: 75 Resp: 128473
 Ion Ratio Lower Upper
 75 100
 53 9.2 64.5 96.7#
 89 0.0 33.7 50.5#



#83
 tert-Butylbenzene
 Concen: 1.766 ug/l
 RT: 13.208 min Scan# 1919
 Delta R.T. -0.006 min
 Lab File: VD070202.D
 Acq: 20 Aug 2021 14:52

Tgt Ion: 119 Resp: 16773
 Ion Ratio Lower Upper
 119 100
 91 78.2 34.0 101.8
 134 25.3 13.2 39.6

